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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5"

GRENAR, Antonin; HERMANSKY, Vojtech; STEFEK, Vojtech

Use of polystyrene replicas for the study of structures and surface formations by a polarizing microscope for transmitted light. Silikaty 3 no.3:22/-230 '64.

1. Institute of Mireral Raw Materials, Kunna Hora ("enar).

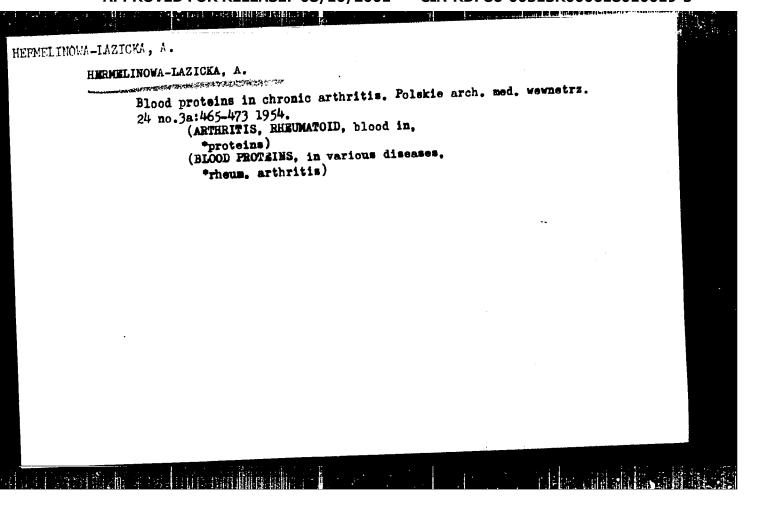
2. Kesearch Institute of Electrotechnical Ceramics, salec Kralove (for Hermansky and Stefek).

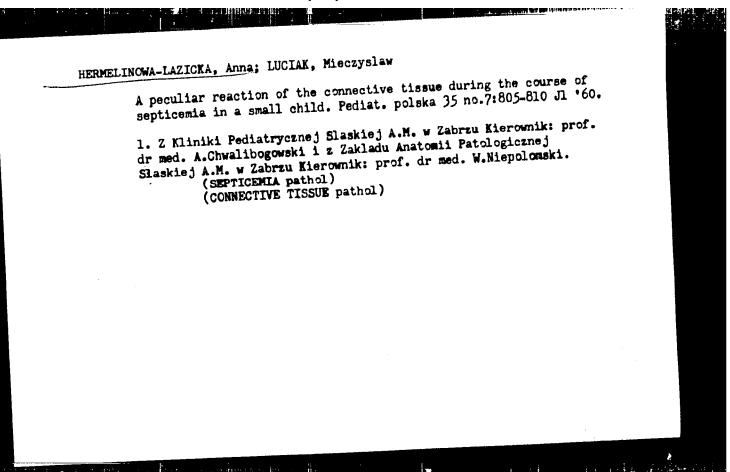
Causes of illusions in instrument flying. p. 21.

MANUAL PROPOSITION PROSTRICTY. (Downdatwo Mojsk Lotnicznych) Marszawa, Poland.
Vol. 12, no. 3, Mar. 1959.

Lonthly list of East European Accessions (VEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.





HERMELINOWA-LAZICKA, Anna; NOWAK, Stanislaw

A case of disgerminoma in an 11-year-old girl. Pediat.polska 35 no.11:1357-1362 N '60.

1. Z Kliniki Chorob Dzieci Slaskiej A.M. w Zabrzu, Kierownik: prof.dr med. A.Chwalibogowski i z I Kliniki Chirurgicznej Slaskiej prof.dr. Kierownik: doc. dr med. S.Szyszko.

A.M., Kierownik: doc. dr med. S.Szyszko.

(DISGERMINOMA in inf & child)

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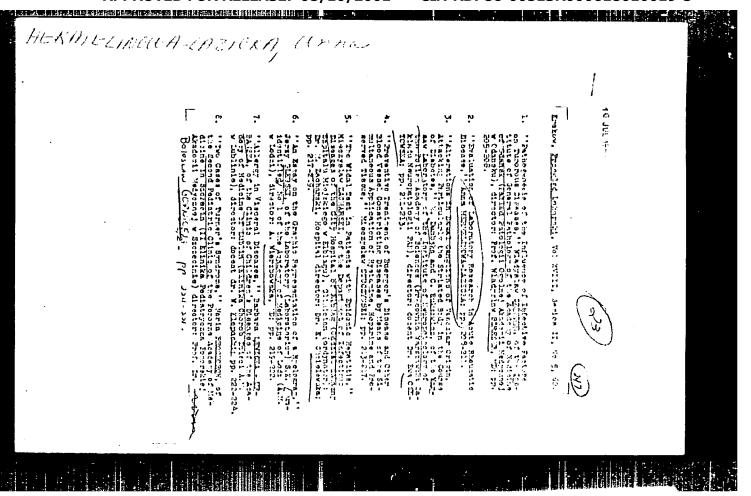
HERMELINOWA-LAZICKA, Anna

Biechemical properties of staphylococci isolated from the ear in otitis media and from the nasepharyngeal cavity in other diseases in children. Polski tygod. lek. 15 no.46:1762-1766 14 N. 60.

1. Z Kliniki Cherob Dzieci Sl. A.M. w Zabrzu; kierownik: prof. dr med. Artur Chwalibogowski.

(OTITIS MEDIA microbiol) (NASOPHARYNX microbiol) (STAPHYLOCOCCUS culture)

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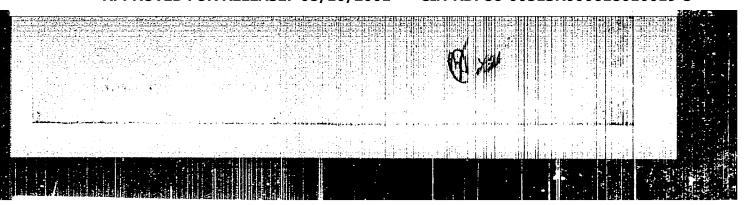


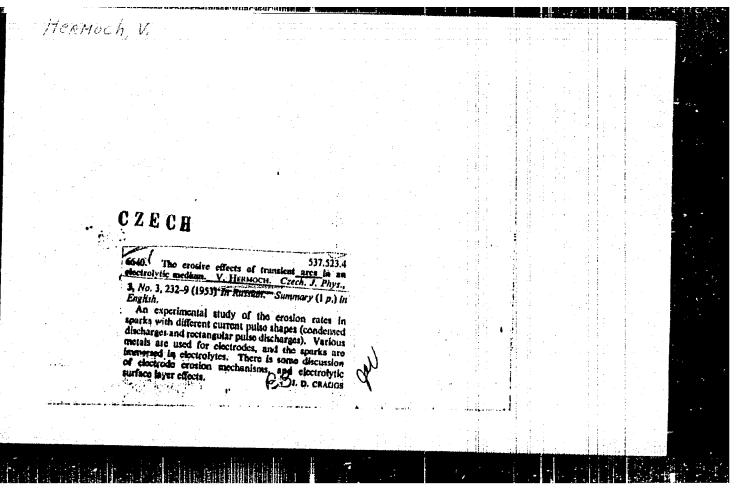
HERMELINOWA, Anna

Regults of the treatment of pleural abscesses in children;
biochemical tests and antibiotic resistance. Przegl. lek.
21 no.6:420-423 '65.

1. Z Kliniki Pediatrycznej Slaskiej AM w Zabrzu (Kierownik:
Prof. dr. med. A. Chwalibogowski [deceased]).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5"





HER:OCH, V.

"Effect of a Nonconducting Layer Covering the Surface of Electrodes on the Course of the Condensed Electric Arc" P. 28

(CESKOSLOVENSKY CASOPIS PRO FYSIKU Vol. 4, No. 1, Feb. 1954 - Praha, Czech.)

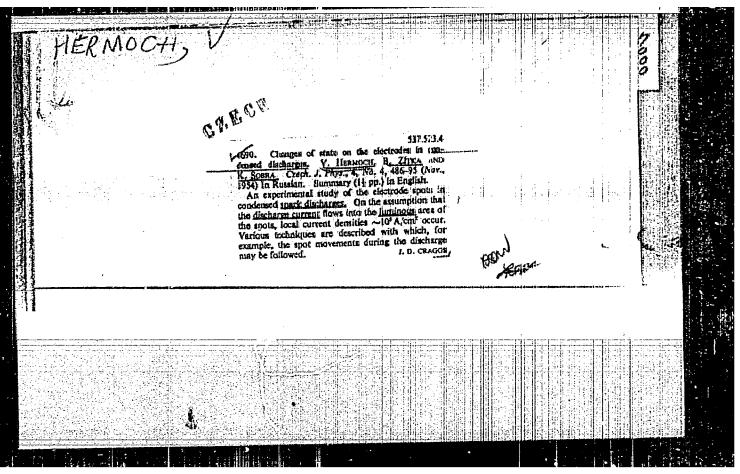
SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4, No. 4, April 1955, Uncl.

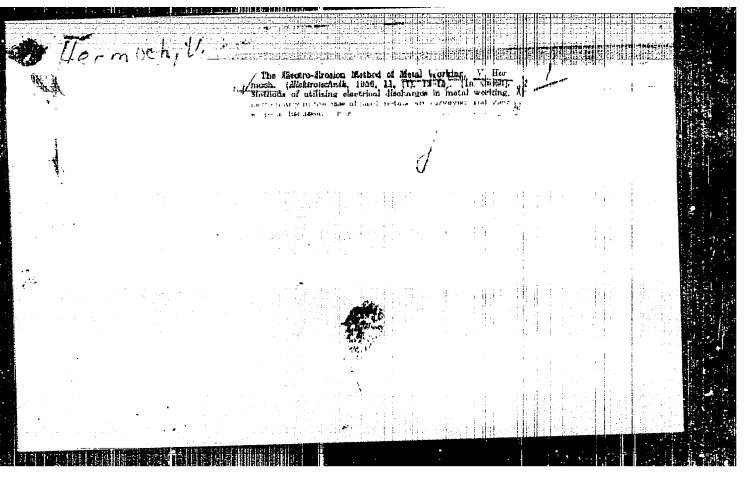
HERRYCH, V.; ATER, R.; Johnson, R.

"Changes of the State of Electrodes in Condensed Discherge."; 305, (CE.KOSLOVENSKA CASOPIS PRO FYSIKY, Vol. 4, No. 3, June 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4

No. 5, May 1955, Uncl.





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HERMOCH, V.

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Periodicals: CESKOSLOVENSKY CASOPIS PRO FYSIKU. Vol. 8, No. 5, 1958

HERMOCH, V. Contribution to the study of electrode areas of high-voltage electric of short duration. p.534.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

Hermoch, VLADIMIR AUTHOR:

CZECH/37-58-6-9/30

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TITLE:

Ejection of Vapour from the Electrode Material in the

Case of Short-duration Heavy Current Electrical

Discharge (Výtrysky par materiálu elektrod krátkodobeho silnoproudeho elektrického výboje)

PERIODICAL: Československý Časopis Pro Fysiku, 1958, Nr 6,

pp 680 - 689 + 2 plates (Czech)

ABSTRACT: It is obvious from published results of various authors that the flow in front of the electrodes in the case of high current intensity discharges is a general phenomenon for which so far no agreed expression has been given. In earlier work (Ref 24) the author has shown that for elucidating the phenomena in electrode regions of a heavy current discharge, it is necessary, in addition to other factors, to know in detail the mechanism of evolution of vapours from the electrodes engaged in the discharge. In this paper, the results are given of measuring the speeds of the evolved vapours and the influence is analysed

of the evaporation on the discharge parameters. The

test arrangement consisted of a spark gap, one

of the electrodes was covered by an insulation plate with a hole through which the discharge passed and was

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5" CZECH/37-58-6-9/30

Ejection of Vapour from the Electrode Material in the Case of a Short-duration Heavy Current Electrical Discharge

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thus localised on the electrode surface, Figure 1, p 681. This enabled investigating the evolution of vapours of the electrode material under various conditions and analysing the mechanism of their formation. The results are tabulated and graphed. Some of the obtained photographs are reproduced. The thermal nature of the ejections, i.e. their formation as a result of evaporation of the electrodes, follows not only from the energy equilibrium for the arface of the electrode but also from the dependence of the speed on the quantity of the evaporated electrode material. It was established that the vapours are not ejected continuously but discretely, and the speed of their motion is of the order of

10⁵ cm/sec. The speeds of these individual ejections during the discharge vary little and they are inversely proportional to the instantaneous quantity of the formed vapours and directly proportional to the energy liberated in the direct neighbourhood of the electrodes. This expresses their dependence on the electrode material; if the electrode material remains the same, the speed depends

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5"

CZECH/37-58-6-9/30

Ejection of Vapour from the Electrode Material in the Case of a Short-duration Heavy Current Electrical Discharge

on the conditions of the electrodes, e.g. current density and, for instance, in the case of localisation, also on the depth of the hole in the plate. The existence of severalareas with differing pressure conditions which can be clearly observed during the outflow of the vapours from the "nozzle" (hole) is confirmed by the fact that they were also observed on electrodes with relatively large surfaces. The definite relation between the electric gradient in the nozzle and the quantity of formed vapour confirms the view that evaporation of the electrodes has a considerable influence on the formation of the discharge on the electrodes. There are 9 figures, 1 table and 34 references, 25 of which are English, 3 German, 1 Soviet and 5 Czech.

ASSOCIATION:

Ústav technické fysiky ČSAV, Praha (Institute of

Technical Physics, Czech Ac.Sc., Prague)

SUBMITTED:

February 24, 1958

Card 3/3

Hermoch, VeadimiR AUTHOR:

CZ/37-58-5-4/19

TITLE:

Contribution to the Study of Electrode Areas of High-Intensity Short-Duration Electric Discharges (Příspěvek

ke studiu elektrodových prostorů silnoproudých

krátkodobých elektrických výbojů)

PERIODICAL: Československý Časopis pro Fysiku, 1958, Nr 5,

pp 535-544 (Czech)

ABSTRACT: The author aimed at determining the changes caused by differing degrees of contraction of the discharge canal on electrodes and to evaluate from these changes the causes which bring about contraction and the processes accompanying this phenomenon. This procedure is in accordance with the procedure applied in theoretical work of various authors (Refs 13-22) dealing with the anode or the cathode space and it is also in accordance with earlier published results of the author (Ref 23), namely, that by restricting the size of the active electrode surface it is possible to bring about differing contractions of the discharge canal and thus of the current

intensity on the electrodes. As a function of the degree Card 1/7 of contraction, the author observed on the one hand the

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APPROVED FOR RELEASE: 08/10/2001

CZ/37-58-5-4/19

Contribution to the Study of Electrode Areas of High Intensity Short Duration Electric Discharges

change in the energy released on the electrodes and, on the other hand, the voltage changes in the spark gap. The energy was determined from its effect on the electrodes, i.e. from the quantity of the material evaporated from the electrodes, paying also attention to the changes in the surface of the electrodes affected by Two groups of experiments were made. In the discharge. both cases the electrode arrangement was such that one of the electrodes (the anode or the cathode) had a strictly delimited active surface. For measuring the impact energy of the carriers, a 6 mm dia. graphite disc was provided which was joined to a copper base and the surface of which was delimited by a durana thick-walled capillary with a differing internal diameter and a ground spherical cavity of such a shape as to fit exactly on the end of the graphite disc (Fig.la). In the second group of measurements the active surface of the electrode was formed by the face of a rod electrode of 1 to 6 mm dia. sunk into a ceramic substance (Fig.1b). The electrodes Card 2/7 were on the same axis, made of the same material, whereby

CZ/37-58-5-4/19 Contribution to the Study of Electrode Areas of High Intensity Short Duration Electric Discharges

the counter electrode was of 4 mm dia. and was provided with a semi-spherical active surface. The discharges were produced by discharging a battery of condensers, whereby the capacitance and the impedance of the discharge circuit were so chosen as to obtain discharges of the desired characteristic under various conditions of contraction. The discharge was initiated according to a method described in earlier work. By using the here mentioned method of artificial contraction, i.e. of increasing the current density by limiting the active surface of the electrodes of a short duration high intensity discharge, the characteristic of the energy released on the electrodes as a function of the current density, and the characteristic of the voltage across the spark gap as a function of the contraction, the material and the polarity of the electrodes were determined. On the basis of the energy equilibrium for both electrodes, taking into consideration the losses occurring as a result of heat conductivity λ to the electrodes, it was found Card 3/7 that with increasing contraction on the electrodes, an

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CZ/37-58-5-4/19

Contribution to the Study of Electrode Areas of High Intensity Short Duration Electric Discharges

increase occurs not only in the total voltage but also in the impact energy of the carriers which is transmitted to the electrodes. Whilst the theories which explain the contraction of electrode spaces (Refs 13-17) take into consideration the fact that an increase in the contraction will bring about an increase in the voltage drop in the discharge zone affected by the contraction, they do not take into consideration the fact that with increasing current density the energy release on the electrodes will increase and bring about evaporation of the electrodes. This means that if for steady state arc discharges for which these theories were originally evolved (and for which the results obtained by the author of this paper are applicable) no appreciable evaporation of the electrodes was observed, the current density in these discharges did not reach the order of 10⁴ A/cm². However, theories relating to high current densities must include the influence of electrode evaporation on the contraction region. The flow of vapours results in an increase of Card 4/7 the gradient in the zone which is influenced by the

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5" CZ/37-58-5-4/19 Contribution to the Study of Electrode Areas of High Intensity Short Duration Electric Discharges

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electrode vapours and brings about an increase in the temperature and the electric conductivity and thus also a thermal contraction of the discharge canal on the electrode surface. The relation between the impact energy, the magnitude of contraction and the intensity of evaporation which intensifies contraction will result in a gradual increase of the current density to a certain limit value. This mechanism explains the splitting of canals, the divided spots and their simultaneous existence. The magnitude of the current densities, which occur spontaneously on the electrodes, is governed by the differing intensities of vapour flow which is due to thermal-physical properties of the material as well as various ionisation properties and effective cross sections of the particles of the medium formed by the electrode vapours. In the here described work it was assumed that the carriers form basically by thermal ionisation of the electrode vapours, whereby under normal conditions the cathode is not likely to have an

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CZ/37-58-5-4/19 Contribution to the Study of Electrode Areas of High Intensity Short Duration Electric Discharges

important part of the electron current and it is to be anticipated that on the average the cathode densities will be about 40% higher than the respective anode densities. The voltage changes across the spark gap during the discharge and its inter-dependence with the current density on the electrode indicates that there is a possibility of a change in the current density as a function of time as well as a function of current intensity. Although in the introductory part of this paper the problems of the electrode spaces were not fully answered, it can be assumed that further study of the electrode spaces (study of the influence of the flow of the vapour of the electrode material) will contribute to elucidating the specific properties of the electrode spaces of this type of discharges.

Card 6/7

CZ/37-58-5-4/19

Contribution to the Study of Electrod: Areas of High Intensity

Short Duration Electric Discharges

There are 6 figures and 33 references, 4 of which are Czech, 2 Soviet, 1: English 14 German.

ASSOCIATION: Ustav technické fysiky, čk V, Praha (Institute of Technical Phys.) 25, Czechoslovak Ac.Sc., Prague)

SUBMITTED: February 24, 1958

Card 7/7

CIA-RDP86-00513R000618010019-5 "APPROVED FOR RELEASE: 08/10/2001

CZECHOSLOVAKIA/Electromics - Electrical Discharges in Gases and H Gas Discharge Apparatus.

Abs Jour

: Ref Zhur Fizika, No 12, 1959, 27856

Author

: Hermoch, Vladimir

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of Sciences, Prague Czechoslovakia

Title

: Vapor Streams of Electrode Materials During a Short-Duration Electric Discharge with Large Current Strength

Orig Pub

: Ceskosl. casop. fys., 1958, 8, No 6, 680-689

Abstract

: Using a rotating mirror, a study was made of the formation of vapor streams of electrode materials (propagating with velocity $\sim 10^5$ cm/sec). The discharge between cylindrical and plane electrodes was localized with the aid of a plate made of insulating material with a hole, which determined the diameter of

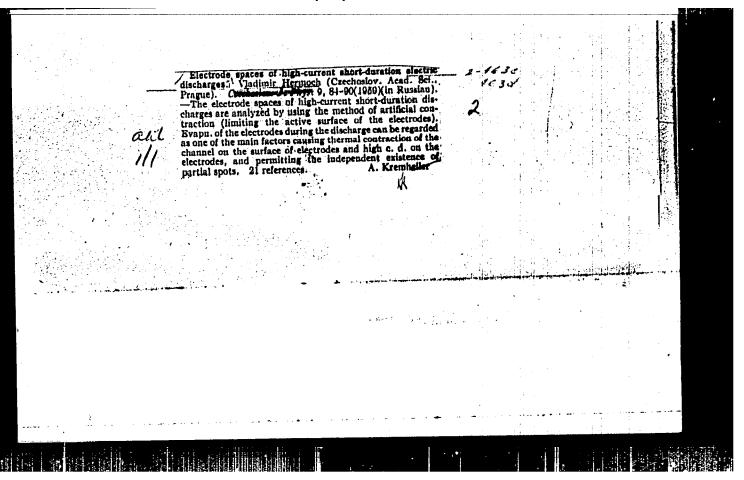
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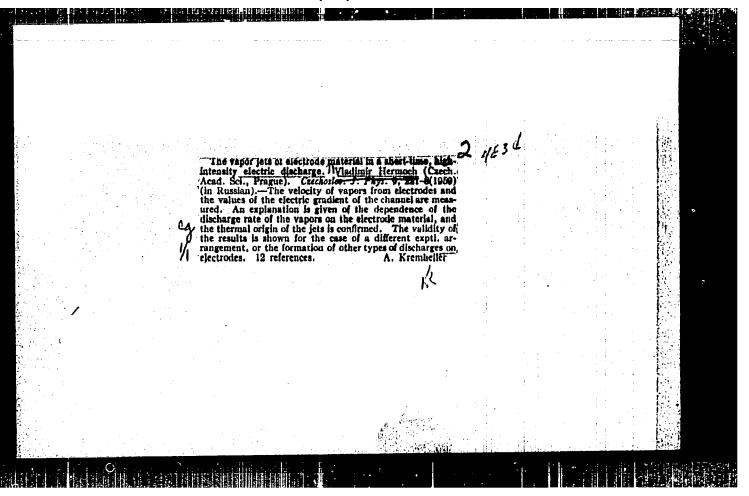
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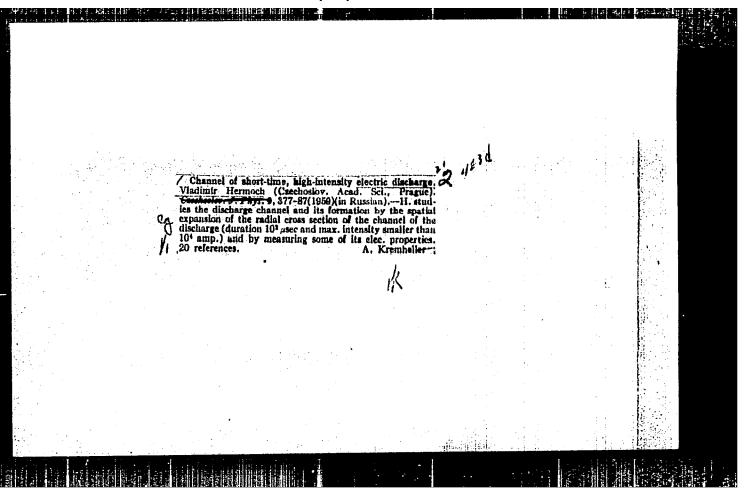
CZECHOSLOVAKIA/Electronics - Electrical Discharges in Gases and Gas Discharge Apparatus

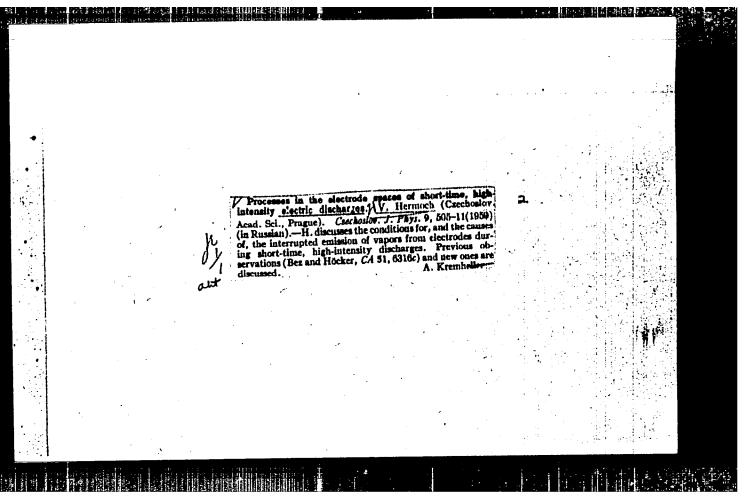
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-: Ref Zhur Fizika, No 12, 1959, 27856 Abs Jour

> the channel of the discharge. The strength of the discharge current reached several thousands of amperes. The thermal nature of the vapor stream from the electrodes is confirmed (the velocity of the vapor is inversely proportional to the quantity of vapor formed per unit time, and is directly proportional to the energy liberated near the electrodes). A connection is established in this paper between the intensity of the electric field in the discharge channel and the quantity of vapor formed, and this connection indicates the substantial role of evaporation of electrodes in the formation of a discharge of this type. Bibliography, 34 titles. -- G.S. Solutsev









Vladimír Hermoch AUTHOR:

CZECH/37-59-2-4/20

The Channel of a Transient High-current Electric Discharge TITLE:

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 2, pp 141-149 (+ 2 plates)

ABSTRACT: Transient high-current discharges have recently been studied extensively (Refs 1-10). The influence of the electrode material has, however, been largely neglected. As has been shown in a previous publication by the author, the transient discharge with maximum current up to 10 kA and duration of 10-100 µsec, leads to the intense formation of vapour from the electrode material. leads to the question how this vapour influences the formation and expansion of the discharge channel. second important question is the dependence of the main parameters of the channel on the parameters of the discharge. Only some of these relations have been studied (Refs 12, 13). The channel was observed in a chamber for continuous time expansion (Ref 11). The slit of the chamber was placed perpendicular to the longitudinal axis of the discharge in the middle between the two electrodes. The electrodes, made from various materials, were about 6 mm diameter with a spherical end-piece. The electrical

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CZECH/37-59-2-4/20

The Channel of a Transient High-current Electric Discharge

parameters of the discharge were measured by previously described apparatus. The discharge can be divided into several characteristic regions in the axial direction. These are, starting from the cathode, as follows: the cathode space-charge region; the cathode region; the channel; the anode region; and finally, the anode space-charge region. The only way of measuring the potential drop on the channel consists of measurements with varying distances between the electrodes. In spite of errors associated with this method, it is probably preferable to the use of probes (Ref 14). Fig la shows the time dependence of the current in the channel and Fig 1b shows the gradients in the channel for one particular instant with varying distances between the electrodes. Fig 2 shows the change in potential as a function of the current of the discharge. By increasing the current, the potential drop increases. behaviour is entirely different from other types of discharge. Fig 3a shows the time-dependence of the potential drop for electrode distances of 1 and 3 mm. Fig 3b shows the approximate values of the gradients.

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CZECH/37-59-2-4/20

The Channel of a Transient High-current Electric Discharge

The figure shows that while the current passes through zero, the gradient has a finite value. This contradicts a result obtained for larger electrode distances by the The dependence of the potential probe method (Ref 13). drop on the material of the electrode is only noticeable for small distances between electrodes and not for Under conditions as distances larger than 7-10 mm. above, the formation of the channel was studied by the chamber for continuous time expansion. A typical expansion of the radial cross-section of the channel is shown in Fig 5a (plate, p 222c). Fig 5b shows a phase photograph of an axial cross-section. The intermittent emission of vapour from the electrodes causes an intermittent condensation of vapours in the central part of the channel and thereby a radial expansion of the While the radial expansion of the plasma for plasma. electrodes with low vapour pressure is negligible, it increases with higher vapourisation of the electrodes and reaches a maximum for electrodes made from Pb, Bi, Cd, Zn, etc (Fig 6). The radial velocity was measured for equal discharge currents (Table 1). A typical cross-section of

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CZECH/37-59-2-4/20

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The Channel of a Transient High-current Electric Discharge

the intensity of radiation from a channel is shown in Fig 7. The channel radiates considerably more than the rest of the discharge. The emission of vapours from the electrodes contributes to the thermal contraction of the channel. This is shown by the changes in the axial conductivity of the channel with varying distances between the electrodes. The intense flow of vapours contributes to the depletion of the channel of ions. The thermal flow into the electrodes from the regions near the electrodes, causes losses which also contract the channel. The time-dependence of the discharge shows considerable influence of the vapours from the electrodes. It is likely that these vapours replace the original gas in the discharge.

Card 4/4 There are 8 figures, 1 table and 20 references, of which 10 are Soviet, 4 English, 3 Czech and 3 German.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha

(Inst. Tech. Physics, Czech Ac. Sc., Prague)

SUBMITTED: February 24, 1958

Z/037/60/000/005/022/056 E192/E382

AUTHOR: Hermoch, V.

TITLE: The Anode Region in a Short-time High-intensity

Electric Discharge

PERIODICAL: Československý časopis pro fysiku, 1960,

No. 5, p. 411

TEXT: The processes occurring at the anode during the formation of the discharge were investigated. The relationship between the physical characteristics of the electrode material and the contraction of the anode region was investigated. The anode region is characterised by the current density in the anode spot and the energy of the electric current carriers. The investigation was done for several elements which were used as the electrode materials. The energy corresponding to the thermal flux to the electrodes and the rate of the evaporation from the spots were determined for these materials. The carrier concentration as a function of temperature and the average electrical continuity of the plasma were also measured. A hypothesis

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Z/037/60/000/005/022/056 E192/E382

The Anode Region in a Short-time High-intensity Electric Discharge

concerning the reasons for the contraction of the anode space is put forward; this was checked experimentally.

ASSOCIATION:

Ústav technické fysiky CSAV, Praha (Institute of Technical Physics of the

CSAV, Prague)

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L 15503-63 EWT(1)/BDS AFFTC/ASD Z/0055/63/013/005/0321/0326 ACCESSION NR: AP3003613

AUTHOR: Hermoch, V.

TITLE: On the formation of the anode space of a short-time high-intensity electric discharge

SCURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 5, 1963, 321-326

TOPIC TAGS: electric discharge, snode, anode spot, thermal conductivity, anode property, high intensity discharge, plasma

ABSTRACT: The formation of anode spots (i.e., their shape, number, and current density) during short-duration, high-intensity electric discharges has been studied by a new method, using anodes of tin, copper, or tin-coated copper. This makes it possible to evaluate the effect of the thermal conductivity of the anode on spot formation in discharges with identical anode material and the anode on spot formation in discharges with identical anode material and type of plasma. The experiments were conducted with prismatic anodes (10 x 10 x type of plasma. The experiments were conducted with 0.01- and 0.1-un-thick tin 50 mm) made of tin, copper, and copper coated with 0.01- and 0.1-un-thick tin layers. Aperiodic discharge pulses of 6 x 10² to 4 x 10⁵ amp maximum intensity layers. Aperiodic discharge pulses of 6 x 10² to 4 x 10⁵ amp maximum intensity were generated by battery discharge. A tangeten rod was used as eathode. The

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L 15503-63 ACCESSION NR: AP3003613

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anode spots were recorded by frame photography at an exposure of 5 x 10⁻⁶ sec. The current density was calculated from the measured surface area and the instantaneous current intensity. The results show that with a tin snode the current density does not change with changing current intensity; with a copper anode it changes with current intensity; and with the tin-coated copper anode the current density depends both on the thickness of the tin layer and the current intensity. The 0.01-mm-thick tin layer vaporized at currents larger than 1000 amp. The current density of 3.26 x 10⁴ amp/cm² observed with the 0.1-mm-thick tin layer was higher than those obtained on the pure copper or tin anodes. The discharge region on this anode was characterized by a large number of isolated circular spots. It is concluded that the constriction of the anode region is affected not only by the type of plasma but also by the thermophysical properties of the anode material. "In conclusion the author would like to thank J. Chudoba and B. Grycz for valuable remarks."

ASSCCIATION: Ustav fyziky pevnych latek CSAV, Prague (Institute of Solid-State Physics, Czechoslovak Academy of Sciences)

SUBMITTED: 29Jun62 SUB CODE: PH

DATE ACQ: 12Jun63 NO REF. SOV: 000 ENCL: 00 OTHER: 004

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L 18795-63 EWT(1)/EWP(q)/EWT(m)/BDS/ES(w)-2 AFFTC/ASD/ESD-3/IJP(C)/SSD Pab-4 RH/JD/JG/AB Z/0055/63/013/005/0327/0334 ACCESSION NR: AP3003614 Z/0055/63/013/005/0327/0334 AUTHOR: Hermoch, V. 73

TITLE: The anode space of short-time, high-intensity electric discharges

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 5, 1963, 327-334

TOPIC TAGS: electric discharge, high int nsity discharge, anode, anode spots, anode evaporation, plasma, tin cor ranode

ABSTRACT: A theoretical study was made to determine the effect of anode evaporation on the discharge mechanism in the anode region during short-duration electric discharges. The evaporation rate (atoms/unit area), the weight flow of vapors) the specific electric conductivity of the plasma formed, the heat flux from the surface into the interior of the anode, and the current density were calculated for 17 metals and carbon on the basis of a simplified energy balance on the surface of the anode. Tabulated values of these quantities showed that 14 elements (e.g., Fe, Al) have almost identical evaporation Cord 1/2

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L 18795-63 ACCESSION NR: AP3003514

C. Ta, W, and Mo, however, had considerably lower evaporation rates but higher heat fluxes. These results suggest that two types of constriction of the anode region exist. One is caused by the cooling action of the vapor flow and is characterized by high current densities and multiple discharge spots. The other is caused by cooling of the plasma in contact with the relatively cold anode surface. Thermal pinch occurs in both cases. The plasma conductivity of all considered elements, with the exception of carbon, did not differ substantially and therefore cannot have a marked effect on the configuration of the anode region. "In conclusion the author thanks J. Chudoba and B. Grycz for valuable remarks." Orig. art. has: 3 formulas, 1 figure, and 1 table.

ASSOCIATION: Ustav fyziky pevnych latek, CSAV, Prague (Institute of Solid-State Physics, Czechoslovak Academy of Sciences)

SUBMITTED: 29Jun62

DATE ACC: 12Jun63

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APPROVED FOR RELEASE: 08/10/2001

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HERMOCH, Vladimir; GRAKOV, Valerij

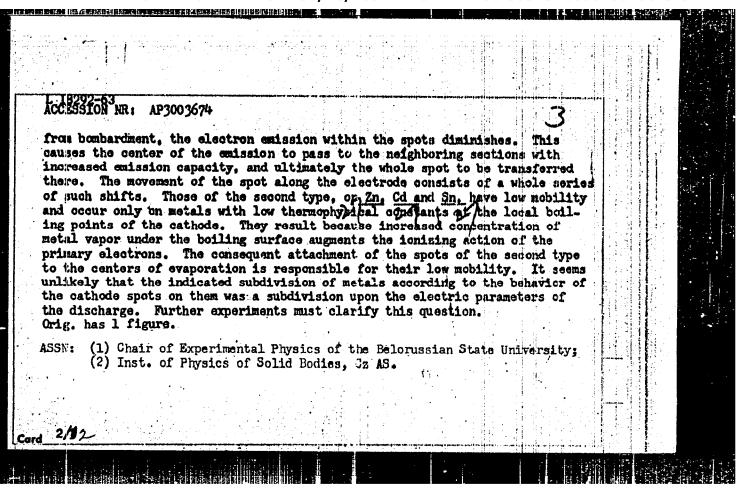
STRUCTURE IN TERM TO BUT INDUSTRUCTION (1.1.)

Magnetooptic shutters. Ces cas fys 13 no.6:463-469 '63.

1. Ustav fysiky pevnych latek, Ceskoslovenska akademie, Praha (for Hermoch). 2. Beloruska statni universita, katedra experimentalni fysiky, Minsk (for Grakov).

L_18292-63	EWT(1)/	EWP(q)/EWT(m)/BDS/ FWL/IJP(C)/SSD F	EEC(h)-2/ES(w)-2	AFFTC/ASD/		
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SOURCE: Che	ekhoslovatskiy 1	isicheskiy shurna	1, v. 13. no. 7.	1963. 509-517	- 100 AND - 100	
	metal type	two type metal, tudy was the aperi	odic discharge of	* condenser unde	er	
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CZECHOSLOVAKIA

HERMCCHOVA, S., and POKORNA, V., Chair of Psychology (Kateura psychologie), Faculty of Philosophy (Filosoficka fakulta), Charles University Prague.

"New Methods of Work With Delinquents in the USA"

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Prague, Ceskoslovenska Psychiatrie, Vol LIX, No 4, August 63, pp 282-284.

Abstract: All information are taken from American sources, especially from publications of the Association for Psychiatric Treatment of Offenders.

1/1

1. 311149-66 ACC NR. AP6026046

SOURCE CODE: CZ/0034/66/000/003/0226/0226

AUTHOR: Bastecky, V.; Petlicka, J. (Engineer); Hermova-Rosova, E.; Srbkova, V.

ORG: none

TITLE: Method for an economical treatment of solutions containing metal ions by means of ion exchangers

SOURCE: Hutnicke listy, no. 3, 1966, 226

TOPIC TAGS: ion exchange, metallurgy

ABSTRACT: The article is a summary of Czechoslovak Patent Application Class 40a, 9/02,40a, 47/00, PV 2792-64, dated 14 May 64. The invention is suitable preferentially for the treatment of highly concentrated solutions, such as may be found in treatment of ores, concentrates, slag, or chemicals, where a limitation of the recirculated liquid is an advantage. The basis of the invention consists in producing solutions at various levels of concentration, at recirculating them at suitable levels in a closed cycle, or using them for other purposes.

[JPRS: 36,646]

SUB CODE: 07,11/ SUBM DATE: none

Card 1/1

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IndCUTE, B.; NowA, A.

"Correct Delimitation of Agricultureal and Forest woils", F. 597,
(2A COCLAIDATION OF EDELSTYL, Vol. 4, No. 6, June 1954, Fraha, Czechoslovakia,

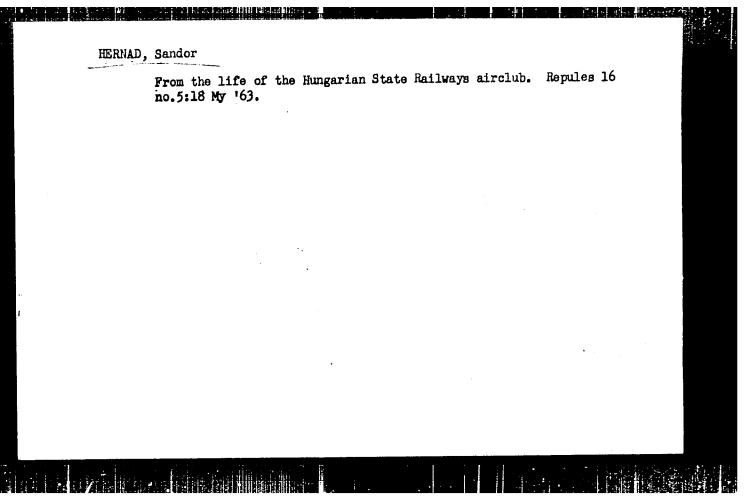
SO: Monthly List of East European Accessions, (SMAL), 10, Vol. 3, No. 12,
Dec. 1954, Uncl.

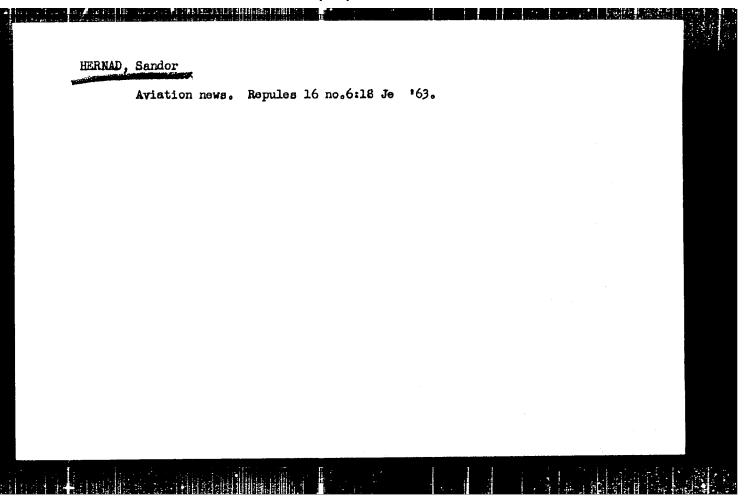
ZASMETA, Vitezslav, prof. inz.; HERMUTH, Bedrich, inz.

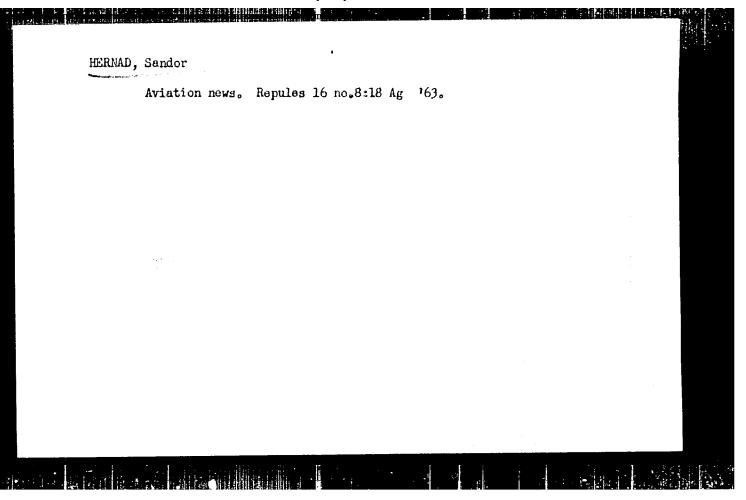
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Evaluation of poplar and willow tree plantations. Les das 10 no.8:701-704 Ag 64

1. Faculty of Forestry, Higher School of Agriculture, Himo (for Zasmeta). 2. Ministry of Agriculture, Forestry and Water Resources Management, Prague (for Hermuth).





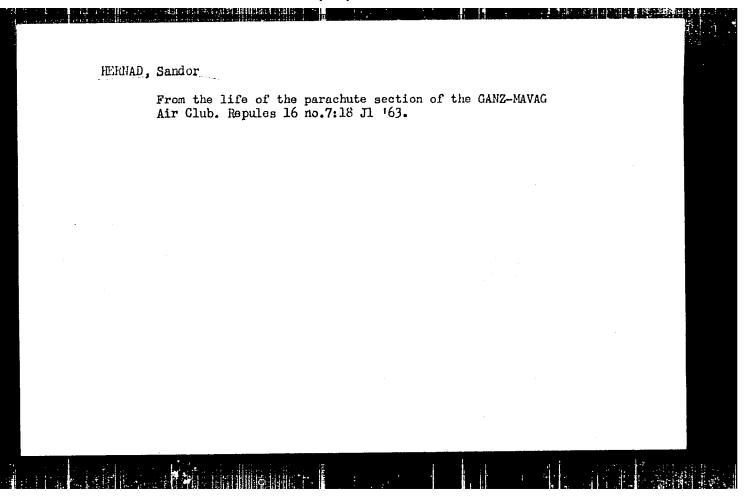


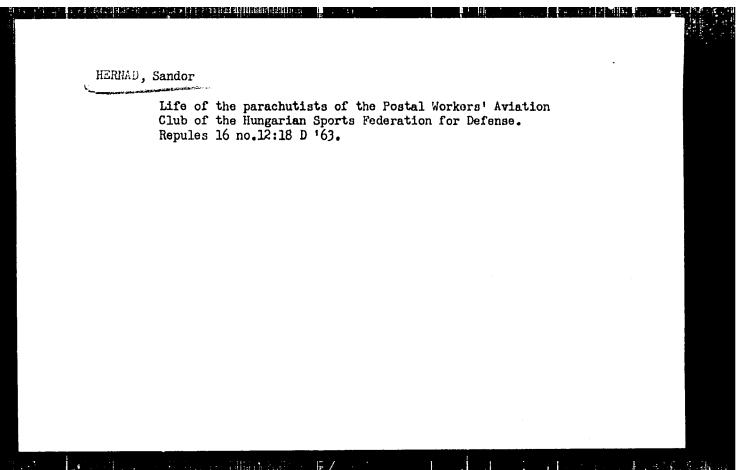
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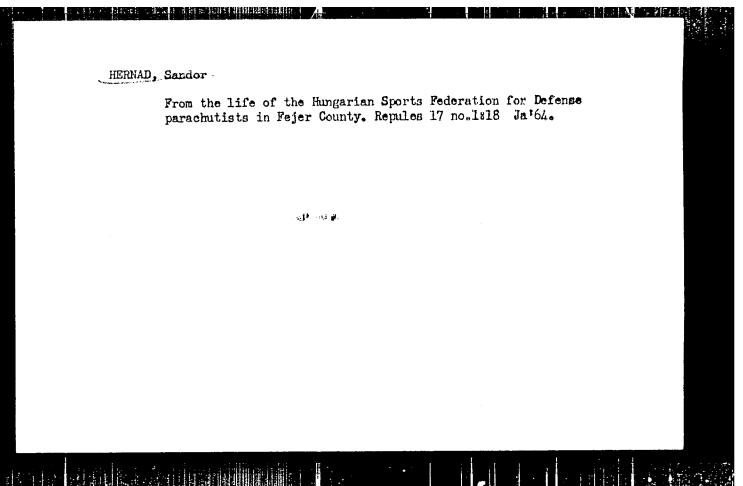
HERNAD, Sandor

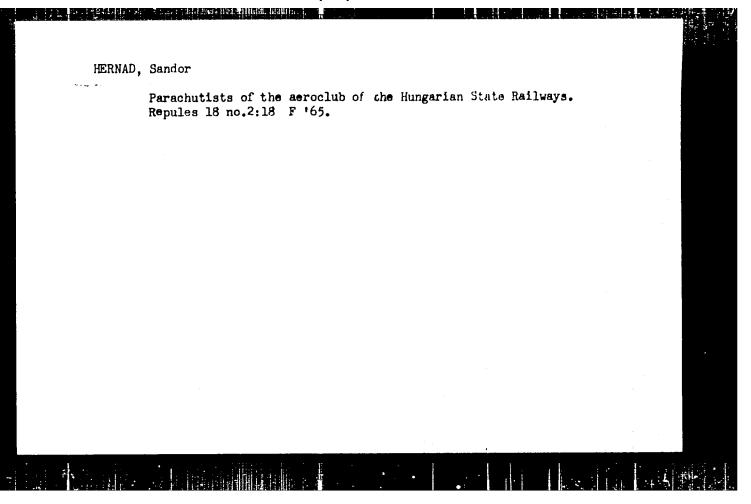
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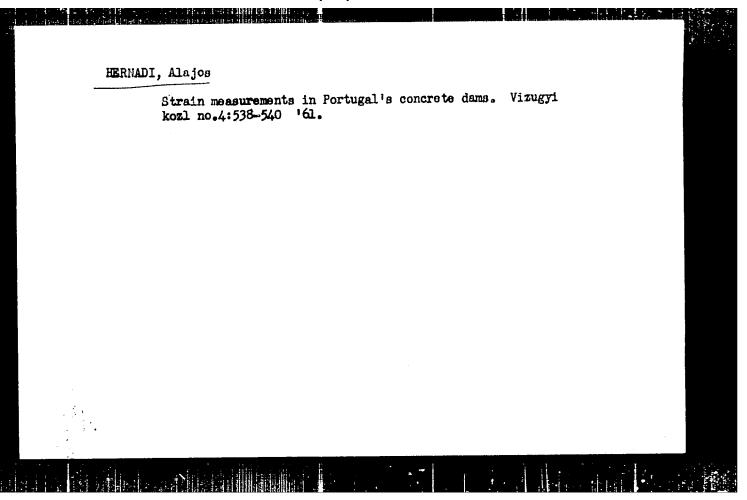




BARTA, L.: HKRNADI, A.

The effect of desoxycorticosterone on the function of the kidney. Gyernekgyogyassat 3 no. 10:302-310 Oct 1952. (CLML 23:5)

1. Doctor. 2. First Pediatric Clinic (Director --- Prof. Dr. Pal Gegesi Kiss), Budapest Medical University.



HERNACI F.; CSOBEN, Gy.; Made. Fr.

The radiation sensitivity of becherichts code cultures. ...

Physiological factors influencing radiation sensitivity.

Acta microbiol. acad. aci. Hung. 11 no.2009.100 toka

1. Pharmakologisches Institut (Direktor: T. Valya beg.) der Medizinischen Unigersität Debrecen.

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HORVATH, Eva, Dr.; VACZI, Lajos, Dr.; SZABO, Gabor, Dr.; HERMADI, Ferenc, Dr.

Effect of antibiotic combinations on Pseudomonas pyocyanea strains. Orv. hetil. 100 no.15:541-544 12 Apr 59.

1. A Debreceni Orvostudomanyi Egyetem Mikrobiologiai Intezetenek (igazgato: Vaczi Lajos dr. egy. tanar) es Gyogyszertani Intezetenek (igazgato: Valyi-Nagy Tibor dr. egy. tanar) kozlemenye.

(PSEUDOMONAS ARRUGIMOSA, eff. of drugs on antibiotics in various combinations (Hun))

(ANTIBIOTICS, eff.

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on Pseudomonas aeruginosa strains, eff. of various antibiotic combinations (Hun))

JENT, jr., A.; PALYI, I.; HERNADI, F.; VALYI-NAGY, T.

Search for antagonistic actinomycetae in Hungarian soils. V. Effects of fermentation liquids in various in vitro tumour tests. Acta biol. acad. sci. Hung. 14 no.2:103-109 '63.

1. Institute of Pharmacology (Head: T. Valyi-Nagy), Medical University of Debrecen, Research Institute for Oncopathology (Head: B. Kellner), Budapest, and Department of Antibiotics (Head: T. Valyi-Nagy), Research Institute of Experimental Medicine, Hungarian Academy of Sciences (Director: I. Rusznyak).

(ACTINOMYCETES) (SOIL MICROBIOLOGY)

(STREPTOMYCES) (CARCINOMA, EHRLICH TUMOR)

(ANTINEOPLASTIC AGENTS)

HERNADI, F.; KOVACS, P.; KULCSAR, G.; VALYI-NAGY, T.

Search for antagonistic actinomycetae in Hungarian soils. VI. The effects of background radiation on Streptomycetes. Acta biol. acad. sci. Hung. 14 no.2:111-121 163.

1. Antibiotics Department (Head: T. Valyi-Nagy), Research
Institute of Experimental Medicine (Director: I. Rusznyak) of
the Hungarian Academy of Sciences and Institute of Pharmucology
(Head: T. Valyi-Nagy), Medical University of Debrecen.

(SOIL MICROBIOLOGY) (STREPTOMYCES)

(ANTIBIOTICS) (RADIATION EFFECTS)

(ANTINEOPLASTIC AGENTS) (MYCOBACTERIUM)

(BACILLUS SUBTILIS)

VALYI-NAGY, Tibor (Debrecen 12, Gyogyszerten, Hungary); HERNADI, Ferenc (Debrecen 12, Gyogyszerten, Hungary); JENEY, Andres (Debrecen 12, Gyogyszerten, Hungary)

, and of the constant of the state of the st

Search for antagonistic actinomycetae in Hungarian soils. I. Antagonistic streptomyces contents of certain kinds of soil. Acta biol Hung 12 no. 1: 59-67 '61.

 Antibiotics Department (Head T. Valyi-Nagy), Institute of Experimental Medicine (Director: I. Rusinyak) of the Hungarian Academy of Sciences, and Institute of Pharmacology (Head: T. Valyi-Nagy) Medical University, Debrecen.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5"

VALYI-NAGY, Tibor (Debrecen 12, Gyogyszertan, Hungary); HERNADI, Ferenc (Debrecen 12, Gyogyszertan, Hungary); JENEY, Andras (Debrecen 12, Gyogyszertan, Hungary); VALU, Gabriella (Debrecen 12, Gyogyszertan, Hungary)

Leave in the control of the control of

Search for antagonistic actinomycetae in Hungarian soils. II. Studies of the streptomyces flora in defined geographical region. Acta biol Hung 12 no.1:69-82 '61.

1. Antibiotics Department (Head: T. Valyi-Nagy), Institute of Experimental Medicine (Director: I. Rusznyek) of the Hungarian Academy of Sciences, and Institute of Pharmacology (Head: T. Valyi-Nagy) Medical University of Debrecen.

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HERNADI, F.; RENCZ, A.; JENEY, A.; VALYI-NAGY, T.

A microbiological method for the study of radioprotective substances. Kiserl. orvostud. 13 no.6:613-617 D 61.

1. Debreceni Orvostudomanyi Egyetem Gyogyszertani Intezete es I sz. Sebeszeti Klinika Rontgen Osztalya.

(RADIATION PROTECTION) (MICROBIOLOGY)

HERNADI, F.; NAGY, Zs.; JENEY, A.; VALYI-NAGY, T.

Use of nitrogen mustards for the biological determination of values of radicactive substances. Acta physiol. acad. sci. hung. 20 no.4: 421-427 '61.

1. Pharmakologisches Institut der Medizinischen Universitat, Debrecen.

(NITROGEN MUSTARDS) (RADIOISOTOPES)

HUNGARY

HERNADI, Ferenc MD of the Institute of Phernacology (Gyogyszertani Interet) of the Debrecen College of Medicins (Debreceni Orvoctodosanyi Ngyetom).

"Chamical Redioprotective igents. I."

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Budapast, Orvosi Hetilap, Vol 103, No 47, 25 Nov 62; pp 4222-7226.

Abstract: A rovice article discussing chemical compounds that are abla to prevent or reduce the development of radiation reaction, as well as impresse the resistance of the organism to radiation when present in the body prior to the irradiation. The most effective radiophosocial compounds may be divided into the following groups: 1. Cyrolides and natriles (Example: KCN, malonic acid dintrile): 2. Sulfrydryl compounds (systamine); 3. Amines (adrenaline, histamine); 4. Hormones (estrogene); 5. Anoxia producers (barbiturates, CO); 6. Chelate builders (disthyldishicoarbamato) and 7. Metabolites and neutral substances (fructose, fluctoacetate). Methods for the evaluation of radioprotective agents are also discussed. [99 references, redominantly Western].

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5"

ACCESSION NR: AT4022937

AUTHOR: Hernadi, Ferenc; Kovacs, Peter; Kulcsar, Gabor; Valyi-Eagy, Tibor

TITLE: Search for antagonistic Actinomycotae in Hungarian soils. VI. The effects of background radiation on Streptomycetes

SOURCE: Academia scientiarum hungaricae. Acta biologica, v. 14, no. 2, 1963, 111-121

TOPIC TAGS: streptomycete, radioactive soil, biological effect, chronic radiation, radiation - genetic effect, radiation - biological effect, antibiotic spectrum, Pridham grouping, sporophore, antitumor activity, culture medium

ABSTRACT: Twenty Streptomyces strains, isolated from radiactive soil were compared with twenty strains from inective soil, to determine the hiddenial acceptance.

with twenty strains from inactive soil, to determine the biological effects of chronic radiation (high level radiation of 8-10 millimicrocuries, over a period of many generations). Thirty-five different culture media were used -- each in quadruplicate. Information on pigment production and certain biochemical processes was obtained, but no essential difference was noted in the strains from the radioactive and the normal soils. No significant differences were observed in the antibiotic spectra, the anti-tumor activity, or the radioprotective effects. The following

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ACCESSION MR: AT4022937

distribution of Pridham's groups was noted under microscopic examination of sporephores of 89 "radioactive" strains: I. 85.4%; II. 12.4%; III. 2.2%. These
sporophores were longer and straighter than any previously seen ones. Among sporephores of 145 control strains the distribution was: I. 26.3%; II. 57.2%; III.
15.2%; IV. 0.7%; V. (VI, VII). 0.7%. Group I. is regarded by Pridham as of
the lowest evolutionary level among these groups. Electron micrographs did not disclose differences between the radioactive and the control strains. Orig. art. has:
10 microphotographs, 2 graphs, 1 table.

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ASSOCIATION: Antibiotics Department of the Research Institute of Experimental Medicine of the Hungarian Academy of Sciences; Institute of Pharmacology of the Debrecen Medical University

SUBMITTED: 08Feb63

DATE ACQ: 08Apr64

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NO REF SOV: 000

OTHER: 013

Card 2/2

MUMARY

Descript, Ference, M.D., of the Institute for Pharmacology at the Medical University (Orvostudomanyi Egyetem Gyogyszerteni Interete) in Dobrecen.

"Radiomimetic Substances"

A CONTRACTOR OF THE SECOND SEC

Budapest, Cryosi Hetilap, Vol 104, No 7, 17 Feb 1963, pp. 307-311.

Abstract: The author reviews the history, chemistry, effects, properties, and application of radiominetic substances on the basis of screenty Literature references (10 German, 1 Russian, and 59 Western.

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HUNGARY

HERNADI, Ferenc, M.D., and VALYI-NAGY, Tibor, M.D., of the Institute for Pharmacology at the Medical University (Orvostudomanyi Egyetem Gyogyszertani Intezete) in Debrecen.

"The Role of Antibiotics in the Treatment of Acute Radiation Syndrome"

Budapest, Orvosi Hetilap, Vol 104, No 20, May 19, 1963, pp. 913-917.

Abstract: In this summarizing article, 27 recent references in the medical literature were briefly reviewed. The radiation syndrome is caused by the decreased resistance of the body (especially the myelopetical system), the decreased phagocytal activity of the tismyelopetical system), and mesenchyma, and the increase in tissue permeability. The effects of various antibiotics were discussed. Twenty-seven references, including 3 German, 2 Hongarian, and 22 Western.

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618010019-5"

HERNADI, Ferenc, dr.; NAGY, Zsolt, dr.

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Chemical radiation-protective agents II. Orv. hetil. 106 no.29: 1369-1375 18 J1'65.

1. Debreceni Orvostudomanyi Egyetem, Gyogyszortani Intezet.

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HUNGARY

HERNADI, Ferenc, NAGY, Zsolt, KOVACS, Peter, and MUCSI, Otto, Institute of Pharmacology (Director: VALYI-Nagy, T.) and X-Ray Clinic (Director: JONA, G.) at the Medical University Toriginal-language version not given in Debrecen.

"The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 2: The Effect of Treatment Prior to, In the Course of, and Following Irradiation on the Radiation-Sensitivity of the Cells"

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 1-11.

Abstract: [German article] The sensitivity of Escherichia coli B-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Anoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. 22 references, including 1 Hungarian, 1 German, and 20 Western. (Manuscript received 8 Nov 1965).

HUNGARY

HERNADI, Ferenc, NAGY, Zsolt, KOVACS, Peter, and VALYI-NAGY, Tibor, Institute of Pharmacology at the Medical University [original-language version not given] in Debrecen (Director: VALYI-NAGY, T.).

"The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 4: Dependence of the Protective Effect of Cysteine-Cysteamine-Type Compounds on Pre-Irradiation Oxygenation and on Pre- and Post-Irradiation Conditions of Culturing"

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 13-20.

Abstract: [English article] Incubation of Escherichia coli B-cultures with cysteine-cysteamine-type compounds before or after irradiation increased the sensitivity of the cells to X-ray irradiation to about the same degree as did anoxic control. The effect of these compounds was physico-chemical prior to and metabolic following irradiation. The metabolic state of the culture, which depends on pre-irradiation conditions, determines principally the degree of radiation-sensitivity. 18 references, including 1 Russian, 5 Hungarian, 1 German, and 11 Western. (Manuscript received 21 Sep 1965).

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- 36 -

HUNGARY

APPROVED FOR RELEASE: 08/10/2005, PcC14-RDP86-60513R000618010019-5
NAGY, Zsolt, HERNAUL, Arter 08/10/2005, PcC14-RDP86-60513R000618010019-5
at the Medical University / Original-language version not given / in
Debrecen (Director: VALYI-NAGY, T.).

"The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 6: Effect of Cysteine on DNA Breakdown by Ionozing Radiation"

Budapest, Acta Microbiologica Academiae Scientlarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 21-24.

Abstract: [English article] The post-irradiation effect of cysteine in the radiation-induced DNA breakdown and colony-forming ability of Escherichia coli B-cultures was investigated by establishing the number of surviving cells. DNA breakdown was inhibited by 0.1 - 0.01 M cysteine; 0.001M concentration was ineffective. No direct correlation was evident between DNA content and viable count. The phenomenon is non-specific and similar to that observed in concentrated solutions of various other substances. When cysteine inhibited the breakdown of DNA, the viable count remained the same or showed a slight increase only. The effect of cysteine is due to a post-irradiation effect of unknown mechanism. 10 references, including 2 Hungarian and 8 Western. (Manuscript received 12 Apr 1965).

MERIMADI, Ferenc, MAOI, Zeolt, KOVACS, Feter, and MACSI, Otto, Institute of Pharmacology (Director: VALYI-Kegy, I) and X-Ray Clinic (Director: JEMA, G.) at the Medical University /original-language version not given in Debrecen, "The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 2: The Effect of Treatment Prior to, In the Course of, and Following Irradiation on the Radiation-Sensitivity of the Cells" Budapest, Acta Microbiologica Academias Scientiarus Hussaricae, Vol 13, No 1, 2 Jun 1966, pp 1-11. Abstract: [German article] The sensitivity of Escherichia coli B-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and ascoria. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism- inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Amoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. has: 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, snowia, chloromycetin SUB CODE: 06 / SUBH DATE: 08Nov65 / ORIG REF: 001 / OTH REF: 021	C. N. AF6035476	SOURCE CODE:	BU/0028/66/	013/001/000	Acorr	
in Debrecen, "The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 2: The Effect of Treatment Prior to, In the Course of, and Following Irradiation on the Radiation-Sensitivity of the Cells" Budapest, Acta Microbiologica Academias Scientiarum Humanicae, Vol 13, No 1, 2 Jun 1966, pp 1-11. Abstract: [German article] The sensitivity of Escherichia coli B-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Amoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. has: 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anoxia, chloromycetin	RMADI, Ferenc, MAGY, Zeolt, KOVACS, Pe	iter, and MUCSI,	Otto, Institu	te of		
"The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 2: The Effect of Treatment Prior to, In the Course of, and Following Irradiation on the Eadiation-Sensitivity of the Cells" Budapest, Acta Microbiologica Academias Scientiarum Humsaricae, Vol 13, No 1, 2 Jun 1966, pp 1-11. Abstract: [German article] The sensitivity of Escherichia coli B-cultures to K-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lover dose ranges. Anoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. hast 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anoxia, chloromycetin	MA, G.) at the Medical University for	and X-Ray Clinic ginal-language w	: (Director: reion not gi	reg/"	ris	
Budapest, Acta Microbiologics Academias Scientiarum Humsaricae, Vol 13, No 1, 2 Jun 1966, pp 1-11. Abstract: [German article] The sensitivity of Escherichia coli 3-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anomia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Anomia, cauned by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. has: 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anomia, chloromycetin	n Debrecen,		:			•
Endiation-Sensitivity of the Cells" Budapest, Acta Microbiologics Academias Scientiarum Humsaricae, Vol 13, No 1, 2 Jun 1966, pp 1-11. Abstract: [German article] The sensitivity of Escherichia coliss-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenical. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Anoxia, caused by nitrogen being babbled through the culture, reduced radiation-sensitivity. Orig. art. has: 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anoxia, chloromycetin	The Radiation-Sensitivity of Escherich	ia Coli B-Culture	a. Part 2: 13	a Iffact	,	
Budapest, Acta Microbiologica Academias Scientiarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 1-11. Abstract: [German article] The sensitivity of Escherichia coli B-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Amoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. has: 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anoxia, chloromycetin	of Treatment Prior to, In the Course	of, and Following	Irradiation	on the		
Abstract: [German article] The sensitivity of Escherichia coli B-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Anoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. has: 9 figures. [JPES: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anoxia, chloromycetin	Radiation-Sensitivity of the Cells"					
Abstract: [German article] The sensitivity of Escherichia coli B-cultures to X-ray and Co-60 radiation was investigated both before and after irradiation and as a function of temperature and anoxia. The sensitivity was decreased by employing minimum nutrient media, especially in conjunction with metabolism-inhibitors such as chloramphenicol. Increased temperatures increased the radiation-sensitivity, especially in the lower dose ranges. Anoxia, caused by nitrogen being bubbled through the culture, reduced radiation-sensitivity. Orig. art. hast 9 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, x ray, cobalt, irradiation, radiation biologic effect, anoxia, chloromycetin	Rudanest Acts. Microbiologica Academica	Calantianum Huan				
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1 00701-67 HU/0028/66/013/001/0021/0024 ACC NR: AP6035478 SOURCE CODE: NAGY, Zsolt, HERNADI, Ferenc, and KOVACS, Peter, Institute of Pharmacology at the Medical University /original-language version not given/ in Debrecen (Director: VALYI-NAGY, T.). "The Radiation-Sensitivity of Escherichia Coli B-Cultures. Part 6: Effect of Cysteine on DNA Breakdown by Ionozing Radiation" | Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 21-24. Abstract: [English article] The post-irradiation effect of cysteine in the radiation induced DNA breakdown and colony-forming ability of Escherichia coligh-cultures was investigated by establishing the number of surviving cells. DNA breakdown was inhibited by 0.1 - 0.01 M cysteine; 0.001M concentration was ineffective. No direct correlation was evident between DNA content and viable count. The phenomenon is non-specific and similar to that observed in concentrated solutions of various other substances. When cysteine inhibited the breakdown of DNA, the viable count remained the same or showed a slight increase only. The effect of cysteine is due to a post-irradiation effect of unknown mechanism. Orig. art. has: 3 figures. [JPRS: 36,834] TOPIC TAGS: bacteria, DNA, radiation biologic effect SUB CODE: 06 / SUBM DATE: 12Apr65 / ORIG REF: 002 / OTH REF: 008

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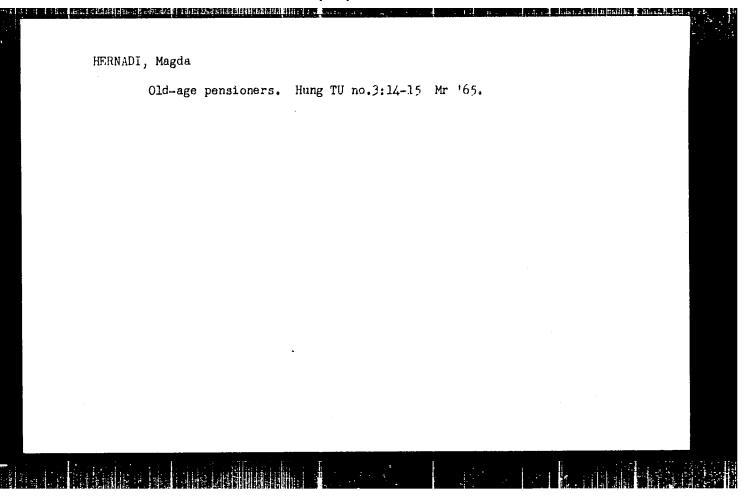
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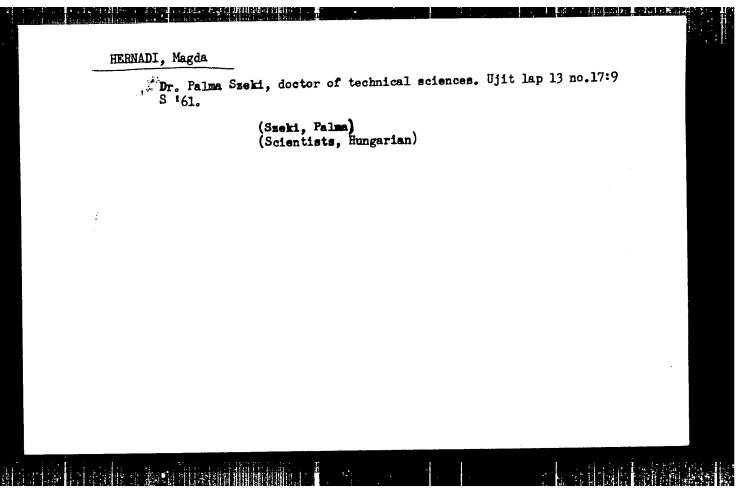
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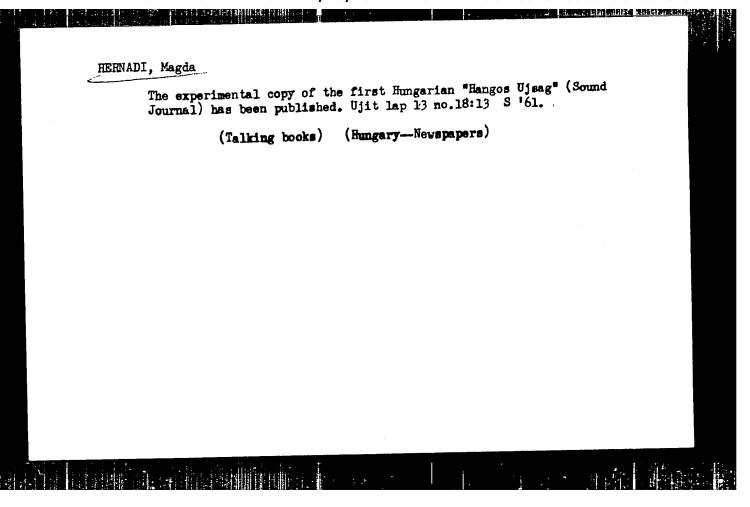
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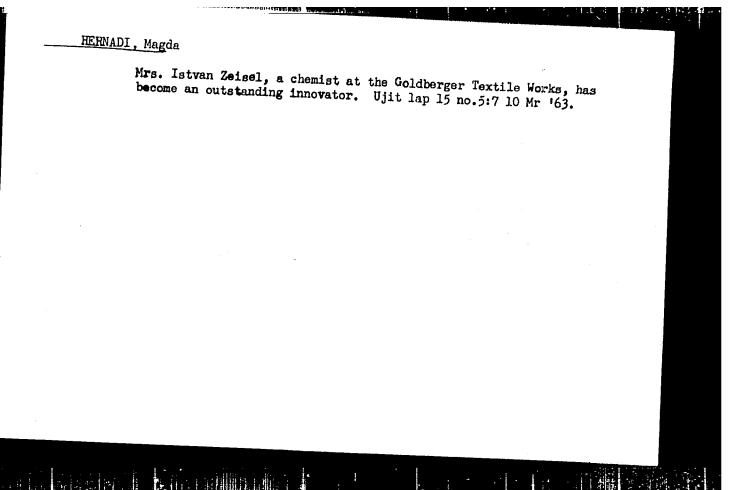
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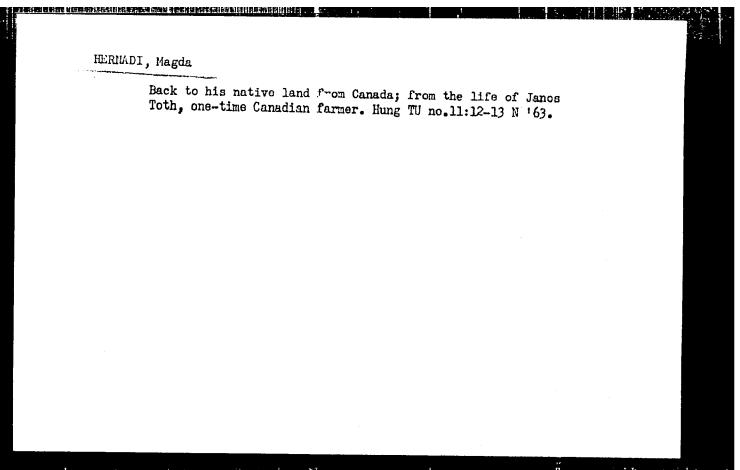
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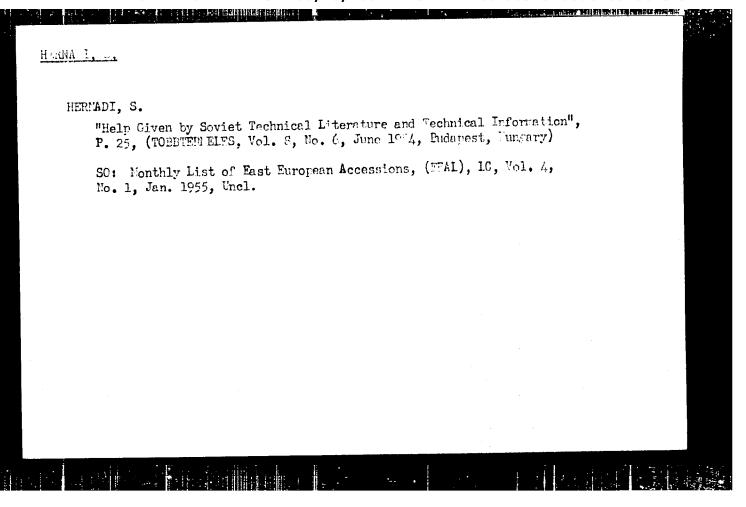


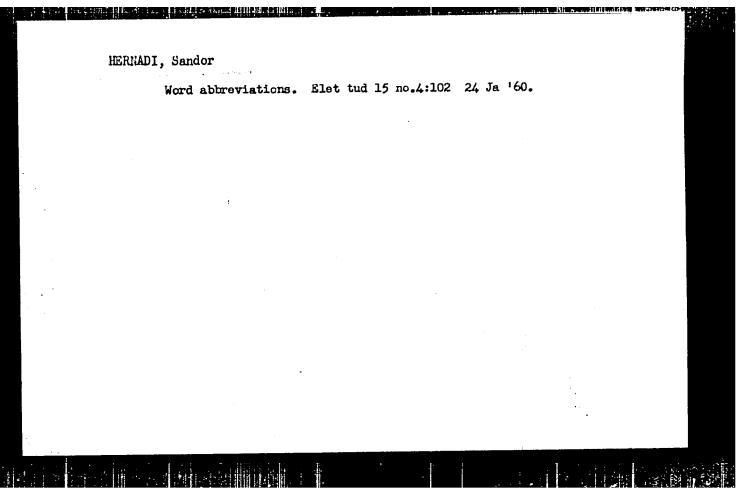












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Abstract [Authors' English summary]: On the basis of the experiments reported in the literature it is pointed out by the authors that in the orthovolt X-ray therapy, in the case of fractionation, the reduction of the minute dose does not play a part because the low dose effect necessary for the increase in the electivity of the radiation effect is practically unrealizable. The theoretical and practical problems related to grid irradiation are discussed and the importance of this method is emphasized. 82 References, mainly Western.

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